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**DETAILED ACTION**

1. Claims 1-8 have been presented for examination.

**Information Disclosure Statement**

2. The information disclosure statement (IDS) submitted on 15 September 2009 is in compliance with the provisions of 37 CF 1.97. Accordingly, the Examiner has considered the IDS as to the merits.

*Allowable Subject Matter*

3. The following is an examiner's statement of reasons for allowance: claims 1-8 are considered allowable since when reading the claims in light of the specification, none of the references of record alone or in combination disclose or suggest the combination of limitations specified in the independent claims, specifically:

The recitation with respect to claims 1, 2, 6, 7, and 8 of "said first radio propagation path starts at the transmission point, does not pass the another edge of said shadowing object, and is diffracted at the one edge of said shadowing object before reaching the receiving point,

said second radio propagation path starts at the transmission point, does not pass the one edge of said shadowing object, and is diffracted at the another edge of said shadowing object before reaching the receiving point" in combination with "wherein, when generating the time varying multi-paths, if a shadowing object is present in the line of sight, a received electric field strength  $E$  is given as the summation of  $E_1$  that is an electric field strength of a first radio propagation path diffracted by a knife-edge at one edge of said shadowing object and  $E_2$  that is an electric field strength of a second radio propagation path that is different from the first propagation path and diffracted by a knife- edge at another opposite edge of said shadowing object" as well as in combination with the respective remaining limitations of claims 1, 2, 6, 7, and 8. See also Figure 12.

The claims are rendered statutory since they recite an apparatus as hardware in claims 1, 2, and 6 and the method of claims 7 and 8 contain a particular machine notably the parameter control units and propagation path generating units. See Figure 4.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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**Conclusion**

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to SAIF A. ALHIJA whose telephone number is (571)272-8635. The examiner can normally be reached on M-F, 11:00-7:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kamini Shah can be reached on (571) 272-2279. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

SAA

/Kamini S Shah/  
Supervisory Patent Examiner, Art Unit 2128

August 27, 2009